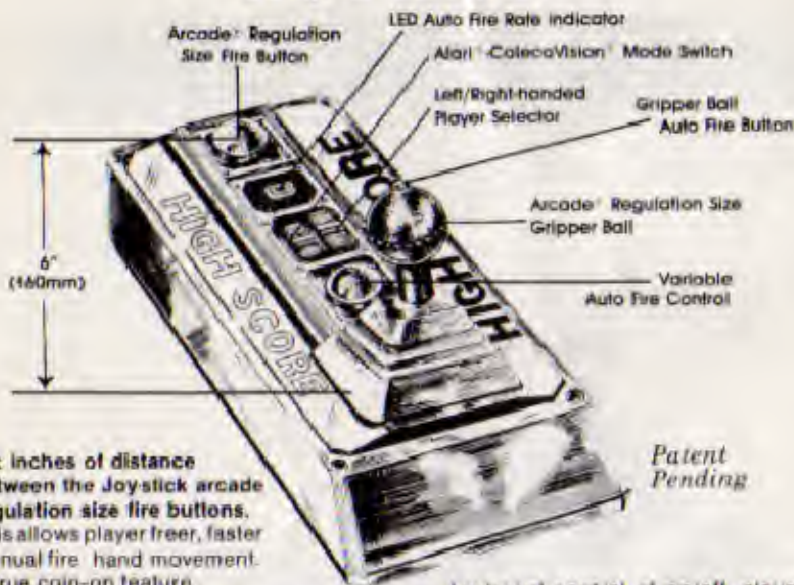


HIGH SCORETM



HS 20
Owners Manual

Key Features



Patent Pending

- **Six inches of distance between the Joystick arcade regulation size fire buttons.** This allows player freer, faster manual fire-hand movement. A true coin-op feature.
- **Atari® VCS and ColecoVision® game selector switch.** This mode selector electronically sets up the HS20 for compatibility with either Atari® VCS or ColecoVision® software.
- **Weighted console base.** HS20 is sturdily operated on any surface including a player's lap with negligible hand or wrist fatigue.
- **Super stiff Joystick control.** Rugged bi-axle mechanism is ultra sensitive to movement in any direction with positive cursor game control.
- **6 commercial grade leaf switches.** Both fire buttons and eight direction control circuit switches are designed to last and last.
- **Built-in auto fire circuitry.** This feature to date will only operate with Atari® VCS software. Fire rate may be activated and variably adjusted by the auto fire control knob.
- **LED auto fire rate indicator.** Visibly allows the player reference indication of auto fire rate. It also assists in the adjustment of the auto fire circuit.
- **ColecoVision® controller/other source input jack.** Built-in port provides the HS20 the ability of operating simultaneously with the Coleco® controller for normal

keyboard control of on/off, player skill, etc. It also may be used to add on an additional Joystick or trackball.

- **Right- to left-handed player mode selector.** Instantly this feature reverses up, down, left, right direction of cursor/object when the HS20 is turned around for left-handed play.
- **Separate dual fire buttons.** A very important feature for ColecoVision® software when two independent fire circuits are a must. Also allows choice of either fire button when using Atari® VCS games.
- **Custom High Score canvas carry bag.** Included with each HS20, a high-style carry bag which holds up to 10 game cartridges and the HS20. It's perfect for toting the HS20 to any place anywhere for friendly games or competitive tournaments.
- **Home computer adaptable with TI 99/4A® and Apple®.** Optional adaptor models HSA 130 for TI and HSA 135 for Apple® II/IE, and III are available.
- **12 ft. super long coiled cord.** It gives the HS20 total accessibility for use in any room.
- **5-year limited parts and labor warranty.** The longest available warranty to date for Joystick peripherals.
- **Console base dimensions:** 9" L x 2 1/4" H x 5 1/4" D (225mm L x 62.5mm H x 132mm D).

Congratulations on your purchasing your new HS20 arcade joystick. Please read the following instructions carefully before plugging in the HS20 into your video game or computer.

1. Carefully remove your carry bag and carton packing when removing the HS20 from the box.
2. As you can feel, the HS20 is weighted so that you can operate it from any flat surface, including your lap.
3. First switch the ATARI® VCS and COLECOVISION® game selector switch to the appropriate setting, either to the Coleco mode for COLECOVISION® or the Atari mode for ATARI® VCS systems. Also, this mode is used for most home computers which accept the nine-pin connector provided with the HS20.
4. If you are a right-handed player, switch the right-to-left mode selector to right and position the joystick control stick so that the red ball is directly in front of your right hand. As you can see, the jumbo fire button will be opposite your left hand. Left-handed players — the positions are reversed and switch the mode selector to left.
5. The auto fire switch should first be turned to the lowest position, which is counterclockwise. Auto fire is activated only by pushing in and holding down continuously the red gripper ball fire switch.
*It is not operable for COLECOVISION®. Please be sure it is turned off when using COLECOVISION®. Also, depending on the software, most home computers, other than ATARI® products, will not fire properly when the auto fire circuit is on in the ATARI® VCS mode. When using with ATARI® VCS games, slowly adjust the auto fire rate by observing the blinking LED indicator and usage during the game. The fire rate may be slower on the screen than visibly indicated by the blinking LED. This will happen and is very normal because certain game cartridges will fire at a predetermined maximum rate.
THE MAXIMUM FIRE RATE DEPENDS ON THE ABILITY AND PROGRAMMING OF THE GAME CARTRIDGES. THEREFORE, CERTAIN CARTRIDGES WILL FIRE MORE SLOWLY THAN INDICATED ON THE BLINKING LED.
6. As you can observe, at the bottom end of the HS20 cabinet next to the connector cord is a nine-pin male jack. This jack is for

use with COLECOVISION® controller so that you may operate the game selection and skill without replugging in your game controller for starting of new games. Also, when using with ATARI® VCS systems, it allows you to use most track balls and other controllers in conjunction with your HS20.

7. The fire buttons are wired separately for auto fire and manual use with ATARI® VCS games. When switched to the Atari mode, both will fire when hit during game play **REMEMBER RED GRIPPER BALL FIRE SWITCH FOR AUTO FIRE AND MANUAL FIRE SWITCH FOR MORMAI PLAY WITHOUT AUTO FIRE.** When switched to Coleco mode, they are wired separately and will fire independently of each other. For example, the COLECOVISION® game "AVENGER" will require this feature. On some COLECOVISION® games when one fire button is required, either the red gripper ball or manual switch will operate depending on the game.
8. To keep your new HS20 in good condition, please store it when not in use in the included canvas carry bag. Remember, this bag is perfect for taking along your HS20 to a friend's house for game playing.
9. If you have any further questions on operation of your HS20, please feel free to write us.

Good Luck in Obtaining Higher Scores!



HIGH SCORE™

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PRINTED IN HONG KONG

PLEASE READ BEFORE USING

SUPER STIFF BIAXLE MECHANISM IS DESIGNED FOR MANY YEARS OF HARD PLAYING AND USE.

THEREFORE THE HS20 REQUIRES AT LEAST 10 HOURS OF BREAK-IN TIME WITH ACTION TYPE GAMES SUCH AS RIVER RAID, LOOPING, ETC. BEFORE MAZE TYPE GAMES SUCH AS DONKEY KONG, PAC MAN, ETC. MAY BE PLAYED NORMALLY.

THE MORE YOU USE YOUR HS20, THE BETTER IT PERFORMS, SO PLEASE BE PATIENT WITH THE BREAK-IN TIME PERIOD REQUIRED FOR NORMAL PERFORMANCE ON SOME MAZE TYPE GAMES.

EXCLUSIVE FEATURE

Biaxle™ Joystick Tension Adjustment

HS20 Joystick tension has been preset for most players above the age of 8 years. Tension for younger players or players who prefer a softer feel, the following may be done to adjust the tension down, slightly.

Be sure that the HS20 is completely disconnected from your Home Computer or Video Game Unit, before doing the following or PERMANENT DAMAGE may occur to your unit and HS20.

- 1) Remove the 4 bottom cabinet screws as shown in Diagram 1.
- 2) Turn the adjuster screws counter clockwise as shown by the small arrows in Diagram 2. Each screw should be turned approximately one half turn, but no more than one full turn.
- 3) Replace the bottom cabinet with 4 screws and tension should be reduced slightly.

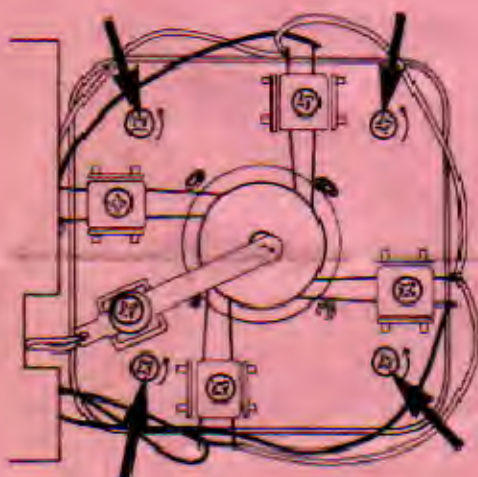


DIAGRAM 2

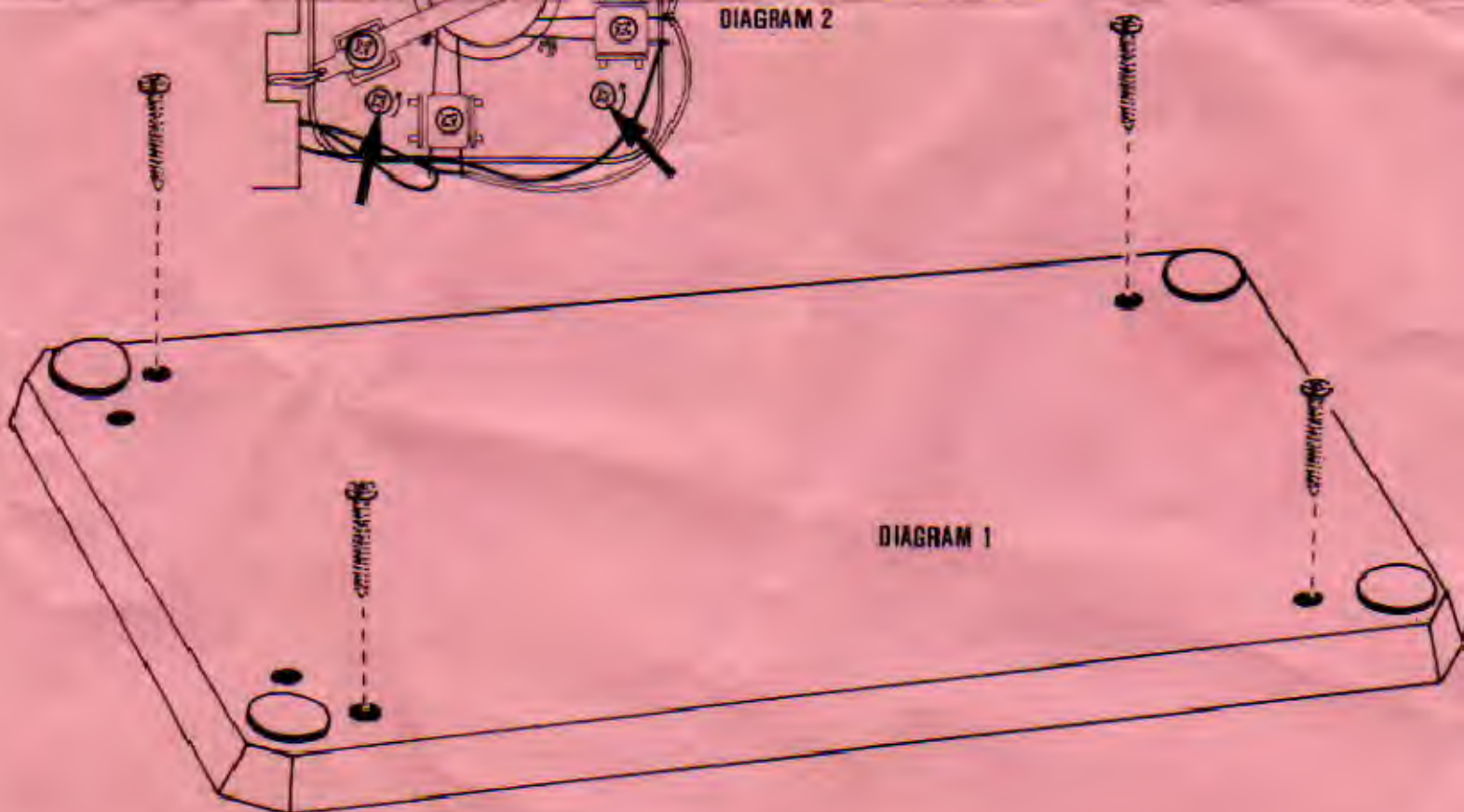


DIAGRAM 1